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ABSTRACT:

CHG DATE=20020103 STATUS=O> An angular velocity sensor includes a vibrator. A differential amplifier circuit outputs a differential signal including a Coriolis component from the vibrator. The differential signal is converted into a digital signal (L-R) by an A/D converter (10). A Hilbert transformer (21) shifts the differential signal (L-R) by  $\pi/2$ . Two multipliers (22, 23) squares the original differential signal (L-R) and the  $\pi/2$  -phase-shifted differential signal ((L-R)'), respectively, and an adder (24) computes the sum of the squares. A square root circuit (25) computes